

Advances in Spatial Information Science

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Abstract

Spatial information in the form of location-based services, spatial queries, geographical information systems, navigation systems and other spatially aware tools have become commonplace in the past decade. This workshop reviews cutting edge research in the area of spatial information science, including navigation and wayfinding, the use of shared spatial information, location-based privacy, big (spatial) data, volunteered geographic information, empirical studies on spatial cognition, and other recent developments in the field.

Keywords: geographic information science, visualization, wayfinding, cognitive maps, volunteered geographic information, spatial thinking

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1 Introduction

With the widespread growth of GPS-enabled devices and tools spatial information in the form of location-based services, spatial queries, geographical information systems, navigation systems and other spatially aware tools have become commonplace in the past decade. The rapid growth of interest in spatial information across the iSchools is being recognized through this workshop which reviews cutting edge research in the area of spatial information science, including navigation and wayfinding, the use of shared spatial information, location-based privacy, big (spatial) data, volunteered geographic information, empirical studies on spatial cognition, and other recent developments in the field.

The workshop will be of interest to those who wish to bring location-aware services into their own research or develop new tools that will include various aspects of spatial computing, broadly defined. Participants will also be exposed to the benefits and limits, including privacy concerns, of using geographic information. In addition, theoretical advances in how spatial thinking is distinct from other forms of reasoning will be discussed. The workshop will delineate ways in which spatial information can support the information needs and information use of individuals in the research community. Presenters will be encouraged to present hands-on examples or demonstrations, where appropriate.

Participants at the workshop will include both presenters and general attendees. The format of the workshop allows for ample discussion, both during the session and through follow-up reports after the conference. The call for position papers, as well as summaries of the discussions from the conference, can be found at workshop website at <http://www.sis.pitt.edu/~cogmap/sisrig/sym14.html>.

2 Conclusion

The goals are two-fold. First and foremost, the workshop will delineate ways in which spatial information can support the information needs and information use of individuals in the research community. Second, attendees will gain an understanding of new domains of inquiry brought forth through discussion with the presenters.

3 References

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